We claim:

- An isocyanate adduct which can be prepared by reacting at least one polyisocyanate with compounds having at least two hydrogen atoms which are reactive toward isocyanate groups and has a crystalline content of less than 10 J/g determined by differential scanning calorimetry in accordance with DIN 51 004 at 20 K/min from room temperature to 250°C using a nitrogen flow of 3 l/h as carrier gas and an aromatics content reported as carbon atoms in aromatic rings of less than 31% by weight, based on the total weight of the isocyanate adduct.
- 15 2. An isocyanate adduct as claimed in claim 1 which has a thermal conductivity determined by the hot wire method at 23°C of less than 0.2 W/m*K, preferably less than 0.19 W/m*K.
- An isocyanate adduct as claimed in claim 1 or 2 containing
 fillers.
 - 4. An isocyanate adduct as claimed in any of claims 1 to 3, wherein the fillers are hollow microspheres having a possible pressure loading of greater than 10 bar.

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- 5. An isocyanate adduct as claimed in any of claims 1 to 4, wherein the fillers are hollow glass microspheres.
- 6. An isocyanate adduct as claimed in any of claims 1 to 5, wherein the fillers are hollow polymer microspheres.
 - 7. An isocyanate adduct as claimed in any of claims 1 to 6, wherein the fillers are hollow ceramic microspheres.
- 35 8. A process for preparing isocyanate adducts as claimed in any of claims 1 to 7 by reacting
 - a) at least bifunctional isocyanates with
- b) at least one compound having at least two reactive hydrogen atoms in the presence of
 - c) catalysts,
- wherein the compounds having reactive hydrogen atoms b) comprise at least one polyetherol bi) having a functionality greater than 2.5 and a molar mass greater than 300 g/mol,

preferably from 300 to 1000 g/mol, and at least one polyol bii) having a molar mass greater than 1000 g/mol and a functionality of from 1.7 to 3 and the reaction is carried out at an index of less than 200.

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- 9. A process as claimed in claim 8, wherein the isocyanate a) used is a mixture of diphenylmethane diisocyanate and polyphenylenepolymethylene polyisocyanates.
- 10 10. A process as claimed in claim 9, wherein the isocyanate is used in an amount of less than 54% by weight, based on the weight of all starting materials.
- 11. A process as claimed in claim 10, wherein the component b)

 15 further comprises at least one polyetherol biii) having a
 molar mass of less than 1000 g/mol and a functionality of
 less than 2.5.
- 12. A process as claimed in claim 11, wherein the component b)20 further comprises at least one polyesterol biv).
 - 13. A process as claimed in claim 12, wherein the component b) further comprises at least one bifunctional chain extender bv) having a molecular weight in the range from 62 to 400 g/mol.
 - 14. A process as claimed in claim 15, wherein the catalysts used are amine catalysts and/or trimerization catalysts.

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